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File 579

COUNTRY Soviet Zone of Germany

REPORT NO

TOPIC Unterwellenborn Maximilian Ironworks Emergency Requirements of D.C. and Three-phase

Electromotors

EVALUATION 25X1X

PLACE OBTAINED 25X1X

DATE OF CONTENT 25X1C

DATE OBTAINED 25X1A DATE PREPARED 19 September 1950

REFERENCES

PAGES 1 ENCLOSURES (NO. & TYPE) 1 dittoed copy of a letter in German

REMARKS

25X1X

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1. Attached is a copy of a letter from the Unterwellenborn Maximilian Ironworks. The letter, dated 14 February 1950, and carrying file note Poe/IB Ek Ca., concerns the Unterwellenborn Maximilian Ironworks emergency requirements of D.C. and three-phase electromotors. * and **

* 25X1A Comment. The Maximilian Ironworks has been experiencing great difficulties in obtaining the motors listed as emergency. The items marked with a single asterisk in the annex were the only ones which could be supplied by April 1950. Of the 6 three-phase motors marked with a double asterisk, only three could be procured by the end of March 1950.

** 25X1A Comment. These emergency requirements comprise a total of 114 D.C. and three-phase motors with a total capacity of about 2,100 kw. However, this total includes only 14 motors with an individual capacity of more than 100 kw. These requirements therefore refer to small motors. The Soviet Zone manufactured about 96,700 such motors in 1949, as compared with 378,000 produced in Western Germany in that year. In addition, the Soviet Zone imports several hundred electric motors a month from the Western Zones. The supply difficulties were obviously exaggerated, for the Maximilian Ironworks, as a priority I enterprise, should be able to get the necessary supplies even though the reparations quota imposed on Soviet Zone production is high.

1 Annex: 1 dittoed copy of a letter in German.

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Abschrift von Abschrift

Sofortbedarf der Maximilianhütte UNTERZWEILLENHORN

an Gleich- und Drehstrommotoren.

1.) Gleichstrom-Hebezeug-Motoren in vollstaendig geschlossener Ausfuehrung, Form B 3,

mit Waelzlagern und normalen, freien Wellenende, fuer Gleichstrom 1140 Volt:

2 St.	41	kw	40 % ED	n - 650
4 "	34	"	40 % "	- 560
2 "	30,5	"	25 % "	- 550
3 "	22	"	40 % "	- 640
2 "	14,1	"	25 % "	- 650
4 "	5	"	40 % "	- 760
3 "	4	"	25 % "	- 670

Gleichstrom-Nebenschluss-Motoren in vollstaendig geschlossener Ausfuehrung,

Form V 1, mit Waelzlagern und normalen freien Wellenende, fuer Gleichstrom

1140 Volt:

4 St. 2 kw n - 1500

2.) Drehstrom-Hebezeug-Motoren in vollstaendig geschlossener Ausfuehrung, Form B 3,

mit Waelzlagern und normalen freien Wellenende, mit Regulier-Schleifringlaufer,

fuer Drehstrom 380 Volt:

5 St.	41	kw	25 % ED	n - 600
5 "	34	"	40 % "	- 600
3 "	30	"	60 min.	- 375
2 "	30	"	40 % ED	- 725
1 "	30	"	40 % "	- 960
4 "	23	"	25 % "	- 600
1 "	22	"	40 % "	- 725
3 "	20	"	60 min.	- 375
5 "	15	"	25 % ED	n - 950 mit Regulier-
2 "	14	"	25 % "	- 600 Schleifringlaufer
2 "	10,5	"	15 % "	- 920
2 "	7	"	25 % "	- 750

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3 St. 6 kw 40 % ED - 935
1 " 4 " 25 % " - 950
4 " 4 " 25 % " - 750 mit Kurzschlussläufer

1 Drehstrom-Hebezeug-Motor in vollkommen geschlossener Ausführung, Form B 3,
mit Regulier-Schleifringläufer, Fabrikat Siemens-Schuckert-Werke, Type h0R
1561 - 8 H, mit einer Leistung von 40 kw bei 40 % und 725 Upm.

1 Drehstrom-Hebezeug-Motor, Form B 3, Schutz p 11 220/380 Volt polumschaltbar,
mit Kurzschluss-Läufer, Fabrikat Brunkon, Type ENL mit einer Leistung von 25/5
PS bei 25 % ED und 240/155 Upm 45 Schaltungen pro Stunde.

Drehstrom-Motoren in vollstaendig geschlossener Ausführung (P 33), Form B 3,
mit Kaelzlagern und normalen, freien Nellenende, mit Anlass-Schleifringläufer,
 fuer Drehstrom 380 Volt:

1 St. 62 kw n - 985
1 " 50 " n - 3000

Drehstrommotoren wie vor, jedoch mit Regulier-Schleifringläufer

1 St. 80 kw n - 950
1 " 50 " n - 950

Drehstrommotoren wie vor, jedoch mit Kurzschlussläufer, fuer direkte Einschaltung:

8 St. 15 kw n - 725
1 " 2,3 " n - 2900

Drehstrommotoren in normaler offener Ausführung (P 00), Form B 3, mit Kaelz-
lagern und normalem, freien Nellenende, mit anlass-Schleifringläufer,
 fuer Drehstrom 380 Volt:

1 St. 150 kw n - 725
1 " 190 " n - 1460
1 " 100 " n - 2900
1 " 100 " n - 950
1 " 90 " n - 1450
1 " 90 " n - 1450
1 " 78 " n - 725
1 " 66 " n - 1440 (*)
1 " 55 " n - 725
1 " 40 " n - 2900 (*)
1 " 20 " n - 2900 (*)
1 " 15 " n - 950

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3/Annex

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Drehstrommotoren wie vor, jedoch mit Kurzschlusslaufer, fuer direkte
Einschaltung:

1 St. 12 kw n - 3000

Drehstrommotoren wie vor, mit Kurzschlusslaufer, fuer Stern-dreieckschalter
660/380 Volt:

6 St. 7,5 kw n - 1435 (**)

1 " 15 " n - 1420 (*)

Drehstrommotoren wie vor, jedoch mit Schleifringlaufer:

2 St. 4,5 kw 9 - 1400 Upm. Rechts- u. Linkslauf

5 " 0,7 " 950 Upm. (PSS)

2 " 15 " 3000 " (Turbine)

2 " 220 " 1472 Upm.

60 kw Drehstrom-Schleifringmotor - 750 Umdrehungen.

UNTERWELLENHORN, den 14.2.1949.

Poe/IB Ek Ga.

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Note.

"St." stands for Stuecke (pieces).

The percentages possibly indicate in percentages the amplifications
factor (Wirkungsgrad) η , with allowance made for friction and loss.

The meaning of "ED" is unknown.

"n" represents Umdrehungszahl (number of revolutions)

"Upm" is Umdrehungen per Minute (revolutions per minute).

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